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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference			of International Search Report			
7694X/VB (Form PCT/ISA/220) as well as, where applicable, item 5 below.						
International application No.	International filing date (day/mo	nth/year) (Earliest) F	Priority Date (day/month/year)			
PCT/US 00/21570	08/08/2000		10/08/1999			
Applicant		·				
• •						
THE PROCTER & GAMBLE COMPA	ANY					
	This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.					
This International Search Report consists	of a total of 3	sheets.				
	a copy of each prior art documen		·			
Basis of the report						
 a. With regard to the language, the language in which it was filed, unli 			national application in the			
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a tra	anslation of the internation	al application furnished to this			
b. With regard to any nucleotide an was carried out on the basis of the		osed in the international ap	oplication, the international search			
contained in the internation	onal application in written form.					
filed together with the inte	rnational application in computer	readable form.				
furnished subsequently to	this Authority in written form.					
furnished subsequently to	this Authority in computer readble	e form.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
the statement that the info furnished	ormation recorded in computer rea	adable form is identical to t	he written sequence listing has been			
2. Certain claims were fou	nd unsearchable (See Box I).					
3. Unity of Invention is lac	king (see Box II).					
4. With regard to the title,						
the text is approved as su	hmitted by the applicant.					
	hed by this Authority to read as fo	llower				
DETERGENT COMPOSITIONS	-					
	, oom (1202), 1	01 23				
5. With regard to the abstract,						
the text is approved as su	bmitted by the applicant.					
	hed, according to Rule 38.2(b), by a date of mailing of this internation					
6. The figure of the drawings to be publ	ished with the abstract is Figure N	10.				
as suggested by the appli	cant.		None of the figures.			
because the applicant fail	ed to suggest a figure.		_			
because this figure better	characterizes the invention.					

INTERNATIONAL SEARCH REPORT

International Application No PCTUS 00/21570

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D3/20 C11D17/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

WO 98 53035 A (PROCTER & GAMBLE) 26 November 1998 (1998-11-26) page 14, paragraph 2 claim 1; examples 1,2 WO 96 33800 A (WITCO CORP) 31 October 1996 (1996-10-31) page 10, line 5 -page 12, line 17 claims 1-3	1,3-5 2,6-8 1-4,6
WO 96 33800 A (WITCO CORP) 31 October 1996 (1996-10-31) page 10, line 5 -page 12, line 17	1-4,6
US 4 873 012 A (BROZE GUY ET AL) 10 October 1989 (1989-10-10) column 4, line 34 -column 5, line 4 column 7, line 15-24 claims 1,15; example 1	1-8,10, 13,14

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but citted to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family	
Date of the actual completion of the international search 9 November 2000	Date of mailing of the international search report $16/11/2000$	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Bertran Nadal, J	

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INTERNATIONAL SEARCH REPORT

International Application No		Application No
P	JS	00/21570

C.(Continuation) DOCUMENTS CONSIDER DOTO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α WO 97 00938 A (PROCTER & GAMBLE) 1-8,10, 9 January 1997 (1997-01-09) page 7, paragraph 2 page 8, paragraph 3 example 13

1

INTERNATIONAL SEARCH REPORT

Information on patent family members

US 00/21570

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9853035 A	26-11-1998	AU 7578198 A	11-12-1998
WO 9633800 A	31-10-1996	US 5674832 A US 5686023 A AU 5671996 A CA 2218725 A EP 0822859 A	07-10-1997 11-11-1997 18-11-1996 31-10-1996 11-02-1998
		JP 11505555 T US 5753079 A US 5958863 A US 5977189 A	21-05-1999 19-05-1998 28-09-1999 02-11-1999
US 4873012 A	10-10-1989	AU 602362 B AU 8006687 A BE 1002980 A CA 1307434 A CH 674850 A DE 3736034 A DK 567487 A FR 2606024 A GB 2196981 A,B IL 84265 A IT 1214425 B JP 63150391 A LU 87028 A NL 8702574 A SE 8704145 A ZA 8707985 A	11-10-1990 05-05-1988 15-10-1991 15-09-1992 31-07-1990 05-05-1988 30-04-1988 11-05-1988 30-06-1991 18-01-1990 23-06-1988 03-05-1988 16-05-1988 30-04-1988 28-06-1989
WO 9700938 A	09-01-1997	BR 9608998 A CA 2225562 A CN 1192777 A CZ 9704036 A DE 19623623 A EP 0842256 A FR 2735786 A GB 2302548 A,B HU 9802501 A JP 11508300 T NL 1003384 C NL 1003384 A	29-06-1999 09-01-1997 09-09-1998 17-06-1998 02-01-1997 20-05-1998 27-12-1996 22-01-1997 29-03-1999 21-07-1999 25-02-1997 23-12-1996

ATENT COOPERATION TR



REC'D	11	SEP	2001
Vc.,20)	F	PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
7694X/VB FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IP)					
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/US00/21570 08/08/2000			10/08/1999		
International Patent Classification (C11D3/20	IPC) or national classification and II	PC			
Applicant					
THE PROCTER & GAMBLE	COMPANY				
This international prelimina and is transmitted to the ap	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a	a total of 6 sheets, including th	is cover sheet.			
been amended and are	ompanied by ANNEXES, i.e. she the basis for this report and/o ection 607 of the Administrative	r sheets containing re	on, claims and/or drawings which have ectifications made before this Authority ne PCT).		
These annexes consist of a total of sheets.					
3. This report contains indicat	ions relating to the following ite	ms:			
I ⊠ Basis of the rep	port				
II □ Priority					
III 🗆 Non-establishm	nent of opinion with regard to ne	ovelty, inventive step	and industrial applicability		
. IV □ Lack of unity of	invention	,,	and medical applicability		
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations suporting such statement					
VI 🗆 Certain docum	ents cited				
VII 🛛 Certain defects	in the international application				
VIII 🛛 Certain observa					
Date of submission of the demand		Date of completion of	this report		
16/10/2000	16/10/2000		İ		
Name and mailing address of the interpreliminary examining authority:		Authorized officer	SOUTS OF SMICHAEL		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx	c: 523656 epmu d	Irwin, L	To the second of		
Fax: +49 89 2399 - 4465		Telephone No. +49 89	2399 2527		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/21570

 Basis of the 	e report
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the receiving Office in response to an invitation under Article 14 are referred to in this report as "originand are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): Description, pages:			response to an invitation under Article 14 are referred to in this report as "originally filed" of this report since they do not contain amendments (Rules 70.16 and 70.17)):				
	1-6	54	as originally filed				
	CI	aims, No.:					
	1-1	7	as originally filed				
2.	ıan	guage in which the i	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.				
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of pu	ranslation furnished for the purposes of the international search (under Rule 23.1(b)). blication of the international application (under Rule 48.3(b)). ranslation furnished for the purposes of international preliminary examination (under Rule				
3.	Wit	h regard to any nuc rnational preliminary	leotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the int	ernational application in written form.				
		filed together with t	he international application in computer readable form.				
		furnished subsequently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure the international application as filed has been furnished.					
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.				
4.	The	amendments have	resulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has bee considered to go be	n established as if (some of) the amendments had not been made, since they have been eyond the disclosure as filed (Rule 70.2(c)):				

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims 15 - 17

No:

Claims 1 - 14

Inventive step (IS)

Yes:

Claims

Claims

No:

Claims 1 - 17

Industrial applicability (IA)

Yes: No: Claims 1 - 17

2. Citations and explanations see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted: see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following documents cited are:

D1: WO 98 53035 A (PROCTER & GAMBLE) 26 November 1998 (1998-11-26)

D2: WO 96 33800 A (WITCO CORP) 31 October 1996 (1996-10-31)

D3: US 4 873 012 A (BROZE GUY ET AL) 10 October 1989 (1989-10-10)

D4: WO 97 00938 A (PROCTER & GAMBLE) 9 January 1997 (1997-01-09)

Novelty:

- The subject matter of the claims 1 5 is not novel since this combination 1. of features has been previously disclosed in D1 (description, page 14, 2nd paragraph). In D1, although the 1,4-cyclohexanedimethanol is intended for use solely as a solvent and not specifically as a hydrotrope, the composition described in claim 1 is none the less the same, and it is probable that the presence of the 1,4-cyclohexanedimethanol exerts the same effects. These compounds are also covered within the scope of document D2 (description, pages 6 - 7, and 10), especially if x and y are equal to 0. These compounds are present in a laundry detergent composition although, as above for D1, they are not called hydrotropes, but would clearly exert the same effects. In D3, the use of hexylene glycol is disclosed which is used to improve the viscosity and dispersability with water (description, column 4, lines 34 - 48); and in D4, a detergent composition comprising hexylene glycol is also disclosed (description, page 7, 2nd paragraph).
- 2. The subject matter of the dependent claim 6 is not novel since these additives have also been disclosed in the above compositions of the prior art: (D1, description, page 1, paragraph 3; D2, description, page 10, lines 19 - 23, and page 17, lines 23 and subsequent paragraphs). In D3, (description, column 5, lines 5 - 8, and claim 8, the use of enzymes is also

suggested.

- The subject matter of the dependent claim 7 is also not novel since the 3. examples disclosed in D3 and D4 fall within the scope of the claimed composition of the present application (see D3, description, column 17, lines 9 - 28; and D4, example, page 21).
- The subject matter of the dependent claim 8 is not novel as fabric care 4. agents such as fabric conditioners and enzymes have been disclosed throughout the prior art. Additionally, amine oxides have also been disclosed in D1 (description, page 28: Amine oxides).
- 5. The subject matter of the claims 9 - 12 is not novel. The size of the microns (claim 10) is identical to those disclosed in D4 (description, page 8). The density and the size of the microspheres, and the density of the surfactant phase (claims 9, 12 and 13) is not novel despite the fact that these values have not been specifically disclosed in the prior art, the compositions must still be within these parameters since they comprise the same ingredients.
- 6. The subject matter of the method claims 13 and 14 is not novel since methods for the use of the laundry washing compositions falling within the scope of the previous claims has been previously disclosed in D3 (claims 15, 16, and 17).
- The subject matter of the claims 15, 16 and 17 which refer to the present 7. composition in the form of tablets and granules is novel since these forms have not been disclosed in the above cited prior art.

Inventive Step:

The advantages of using tablet and granular laundry compositions are well 8. known in the art, and it presently appears obvious for a skilled worker, wishing to incorporate the above known liquid composition into another form if he so desired.

Re Item VII

Certain defects in the international application

1. The phrase "... herein incorporated by reference" as used for throughout the description, is an expression not to be used since it renders the extent of the protection unclear (Guidelines, PCT/GL/3 III, 4.3a).

Re Item VIII

Certain observations on the international application

- 1. The subject matter of claim 2 is too broad. It describes a liquid laundry detergent composition (that can be aqueous or non-aqueous - which covers every possibility), which is then further described by a result to be achieved. This is followed by a few disclaimers (absence of hydrotrope, and quaternary compounds which are derivatives of certain compounds), which in total leaves the claim with little substance. Please see Article 6 PCT, and PCT/GL/3 III, 4.7a for details on describing products by their parameters alone.
- The use of the term fabric care agent in claim 8 is not clear as it stands as 2. this care agent could be an enzyme, surfactant, fabric conditioner, dye transfer inhibitor etc. Although support for this claim is found in the description on page 39 onwards, the present claim 8 does not stand alone well since the definition of fabric care agent is too broad in scope and itself is not clear.